



T-1

Figures

Station Buoy for McCrie Shoal Lighted Whistle  
Buoy 2. Located in Delaware Bay region. Exposed 18.06  
months, 9 Jan. 1943 to 11 July 1944. Depth of water 45 ft. Depth  
of fathering 40 ft. Type run (S). Paint: none left. Mooring:  
iron hemisphere. Bottom hard (?).

Heavy mussel fouling (probably 3 years) -  
increases abruptly at about 3 ft. above which all young ones  
and narrow band of *Enteromorpha*. Chain all shaken free on  
being aboard. Clumps at upper end of chain as seen in  
photos typical of all.



T-1

Station Bury for McCue Shoal Lighted Whistle Bury 2.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
1	2.0	6.75	5.5	0.0882	Algae, Hydrozoa, Actinaria, Annelida, Amphipoda, other Gastropoda, Mytilus, other Pelecypoda.
3	3.4				(no samples)
6	5.0	17.5	13.5	0.216	Hydrozoa, Actinaria, Annelida, Amphipoda, other Crustacea, Gastropoda, Mytilus, other Pelecypoda.
12	4.67	18.0	13.5	0.216	Hydrozoa, Actinaria, Annelida, Amphipoda, other Crustacea, Gastropoda, Mytilus, other Pelecypoda.



T-2

Figures

Great Egg Inlet Outer Bell Buoy G.E. Located at Delaware Bay region. Exposed 0.56 months, 15 June 1984 to 11 July 1984.

Depth of water 38 ft. Depth of fouling: not seen. Type: bell (ballast ball). Paint: red lead. Mooring: not seen

Buoy only relieved and shackled to old chain.

Buoy only relieved about 3 wks. before. Few Enteromorpha near waterline. Hydroids including Tubularia up to 2 inches high in small clumps on buoy, bridle and ballast ball.



T-2

Great Egg Inlet Outer Bell Buoy G.E.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
1	3.0				Algal, amphipoda
3	1.25				Algal, Hydrozoa, amphipoda.
6	1.25				Algal, Hydrozoa, Acorn Barnacles, Amphipoda, Mytilus.



T-3

Figures

Delaware Bay Anchorage B, Buoy BA. Located at Delaware Bay region. Exposed 6.66, 22 ~~Dec~~ Dec. 1943 to

12 July 1944. Depth of water ~~##~~ 38 ft. Depth of fouling 25 ft. Type: tall can. Paint: red lead. Mooring: concrete block. Bottom: blue mud.

Buoy with some hydroids, many corophia, ~~many~~ ~~Coro~~, few barnacles, mussels and Tubularia on chain. no fouling on mooring, buried in mud.



T-3

## Delaware Bay Anchorage B, Buoy B A.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
buoy 3 1	2.0	0.320			Hydrozoa, Actiniaria, Annelida. Bryozoa, Amphipoda, Algae Crustacea, Gastropoda, Mytilus.
3	2.0	0.320			Algae, Hydrozoa, Bryozoa; acorn Barnacles, Amphipoda, Mytilus.
6	2.25	0.477			Hydrozoa, Acorn Barnacles, Amphipoda.
12	3.0	0.653			Hydrozoa, Acorn Barnacles, Amphipoda.
24	1.58				Hydrozoa, Bryozoa, Amphipoda. Gastropoda, Mytilus.



T<sup>4</sup>

Figures

Delaware Anchorage Area B, Buoy BC. Located  
~~Figures~~ in Delaware Bay. Exposed 6.66 months,

22 Dec. 1943 to 12 July 1944. Depth of water 30 ft.

Depth of fathling 25 ft. Type 7-18. Paint: 15 R.C.

Moorings: concrete block. Bottom: mud.

Corophium, few hydroids and barnacles on O buoy.

Hydroids on Buoys. mussels and hydroids on chain.



# Delaware Anchorage Area B, Buoy B.C.

Depth of Water	Thickness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 0		0.163			Hydrozoa, Acorn Barnacles, Amphipoda
3					Hydrozoa, Acorn Barnacles, Amphipoda
6		0.132			Hydrozoa, Acorn Barnacles, Amphipoda
Chain 6	2.5	0.123			Hydrozoa, Annelida, Amphipoda, Mytilus
24	2.3	7.26			Hydrozoa, Annelida, Bryozoa, Amphipoda, Gastropoda, Mytilus, also Pelecypoda
Chain 6	<del>2.5</del>	0.179			} $1\frac{1}{2} \times 5 \times 7\frac{1}{2}$ per 3 links
24	<del>2.3</del>	11.25			



T-5

Figure

Delaware Bay Anchorage Area A, Buoy A B.

Located in Delaware Bay region. Exposed 6.66 months,  
22 Dec. 1943 to 12 July 1944. Depth of water 35 ft. Depth  
of fouling 2.5 ft. Type: tall can. Paint: red lead. Mooring:  
not recorded. Bottom hard (?).

Tuft of heavy hydroids, many *Corophium*.

Hydroids and few mussels on chain. Mooring with  
few hydroids. Fouling ended ~~at~~ 2 ft above chafe.



-75

# Delaware Bay Anchorage Area A, Buoy A B.

Depth of Water	Thickness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 0	3.5	0.304			Hydrozoa, Acorn Barnacles, Amphipoda, Mytilus.
3	3.75	0.597			Hydrozoa, Acorn Barnacles, Acorn Barnacles, Amphipoda, Mytilus.
6	3.8	0.333			Hydrozoa, Acorn Barnacles, Amphipoda, Nudibranchia, Eggs.
12	3.0	0.520			Hydrozoa, Acorn Barnacles, Amphipoda, Nudibranchia, Eggs
Chain 18	0.25				Hydrozoa, Bryozoa, Amphipoda, Mytilus.
24	2.67	0.24			Hydrozoa, Bryozoa, Acorn Barnacles, Amphipoda.
Chain 24		total wt. 0.202			$1\frac{1}{4} \times 4\frac{3}{4} \times 7\frac{1}{2}$ per 2 links



T

6

Figures

Delaware Bay Anchorage Area A, Buoy A D. Located

at Delaware Bay region. Exposed 6.66 months, 22

Dec. 1983 to 12 July 1984. Depth of water 32 ft. Depth

of fouling 22 ft. Type 7-18. Paint: red. bed. mooring:

concrete block. Bottom: mud.

Very light fouling; hydroids and Corophium on  
buoy. Hydroid on chain. Buoy dried up before it could  
be sampled.



T 6

Delaware Bay Anchorage Area A, Bury A.D.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
<del>1</del> 1	<del>1.5</del>				Hydrozoa, Annelida, Acorn Barnacles, Amphipoda.
3					Hydrozoa, Acorn Barnacles, Amphipoda, Mytilus.
Chain 6	2.5				Hydrozoa, Annelida, Amphipoda



T<sup>7</sup>  
Figures  
Delaware Bay Approach South West Channel

Lighted Bell Buoy 3. Located at Delaware Bay region.

Exposed 10.16 months, 24 May 1944 to 29 March 1945.

Depth of water 102 ft. Depth of fouling 100 ft. Type

9-32. Paint: red lead. Mooring: iron hemisphere

Bottom: sand.

Lepas at waterline and under box; scattered  
~~at~~ mussels and hydroids elsewhere including chain  
to 50 or 60 ft. Mussels nearly absent at end of fouling.  
Fouling on lower chain had gaps.

T 7

Delaware Bay Approach South Inland Channel Light  
Bell Buoy 3.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
0	5.5	0.941			Algae, Hydrozoa, Acorn Barnacles, Goose Barnacles, Amphipoda, Nudibranchia, Mytilus.
6		0.350			<del>Algae</del> Hydrozoa, Amphipoda, Nudibranchia, Mytilus, other Peleypoda, Eggs
7		0.254			<del>Algae</del> Hydrozoa, Bryozoa, Acorn Barnacles,
7					Algae, Hydrozoa, Bryozoa, Acorn Barnacles, Goose Barnacles, Amphipoda, Nudibranchia, Mytilus,
12		0.394			Algae, Acorn Barnacles, Goose Barnacles, Nudibranchia, Mytilus, other Peleypoda.
Chain 9		1.05			Hydrozoa, Nudibranchia, Mytilus, other Peleypoda, Eggs.
60		0.743			Hydrozoa, other Crustacea, Nudibranchia, Mytilus, other Peleypoda
Chain 9		0.731			1 1/2 x 6 x 9 per link
60		0.659			1 1/2 x 7 x 12 stud per link



T. J. J. J.  
Delaware Bay Approach Sweep Channel  
Lighted Bell Bury 7. Located at Delaware Bay  
Region. Exposed 9.7 months, 8 June 1944 to 29  
March 1945. Depth of water 75. Depth of fending  
75 ft. Type 8-26. Paint: red lead. Mooring: concrete  
sinker. Bottom: hard.

Algae on buoy body; hydroids and comenicals  
under and on spar. Mussels and hydroids on chain  
& end of fending.

T 8

# Delaware Bay Approach Inlet Channel Light

Bell Buoy 7.

Depth of Water	Thickness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 6	3.5	0.450			Algae, Loose Barnacles, Amphipoda, Mytilus.
-7	1.125	0.608			Hydrozoa, Bryozoa, Amphipoda, Nudibranchia, Mytilus
9	1.75				Algae, Hydrozoa, Annelida, Amphipoda, Mytilus, also Palaeopoda.
Chain 9		3.57 <del>3.96</del>			Algae, Hydrozoa, Amphipoda, Mytilus.
12		3.67			Algae, Hydrozoa, Actinaria, Bryozoa, Amphipoda, Mytilus.
30		2.54			Hydrozoa, Bryozoa, Amphipoda, Mytilus.
70		0.439			Algae, Hydrozoa, Bryozoa, Amphipoda, Mytilus.
Chain 9		1.75			$1\frac{3}{4} \times 4\frac{3}{4} \times 7\frac{1}{2}$ per 1 link
12		1.625			$1\frac{1}{4} \times 4\frac{1}{2} \times 7\frac{1}{2}$ "
30		1.5			$1\frac{1}{2} \times 5\frac{1}{2} \times 9$ "
70		0.274			$1\frac{1}{2} \times 5\frac{1}{2} \times 8\frac{3}{4}$ "



T-9  
figures

Delaware Bay Approach South West Channel

Lighted Bell Buoy 8. Located in Delaware Bay.

Exposed 9.7 months, 8 June 1944 to 29 March 1945.

Depth of water 65 ft. Depth of fathling 55 ft.

Type 8-26. Paint: red lead. mooring: concrete sinker.

Bottom: mud.

Like T-8 but fewer mussels on chain,  
no large clumps.

7 9

Delaware Bay Approach South Sweep Channel Lighted

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
6	5.5	0.911			Algae, Hydrozoa, Amphipoda, Mytilus.
7	1.25	1.07			Poufira, Annelida, Bryozoa, Amphipoda, Gastropoda, Mytilus, Acha Pileypoda.
7					Algae, Hydrozoa, Bryozoa, Amphipoda, Mytilus, Acha Pileypoda.
12	1.5	2.625			Algae, Hydrozoa, Annelida, Bryozoa, Acan Barnacles, Amphipoda,
chain 9		2.32			Hydrozoa, Annelida, Bryozoa, Amphipoda, Mytilus, Acha Pileypoda
25		2.06 <del>3.24</del>			Hydrozoa, Annelida, Bryozoa, Amphipoda, Acha Crustacea, Gastropoda, Mytilus, Acha Pileypoda.
40		3.24			Algae, Hydrozoa, Actinaria, Annelida, Bryozoa, Amphipoda, Gastropoda, Mytilus, Acha Pileypoda.
chain 9		total wt 1.04			$\left. \begin{array}{l} 1\frac{1}{4} \times 4\frac{3}{4} \times 7\frac{1}{2} \\ 2 \times 7 \times 12 \end{array} \right\} \text{cu. ft. } 1 \text{ line}$
25		1.75			
40		2.75			



T 10

Figures

Five Fathom Bank Lighted Bell Buoy F.L.S.

Located at Delaware Bay region. Exposed 11.4 months.

18 April 1944 to 30 March 1945. Depth of water 91 ft.

Depth of fathoming 90 ft. Type 9-32. Paint: red lead.

Moorings: iron hemisphere. Bottom: mud.

Buoy lightly fouled with mussels, hydroids, algae. 1 or 2 Lepas. Chain (not fiddle) heavily fouled with mussels & 51 ft. less so to end at 90 ft.

Lepas at 7 ft under, 12 ft on spread.

T 10

Five Fathom Bank Lighted Bell Buoy F.L.S.

Depth of Water	Thickness	Weight	Weight of Water	Volume of Water	Fouling
5	0.375	0.703			Amphipoda, Mytilus.
7	0.375	0.625			Amphipoda, Mytilus
7 1/2					Large Barnacles, Amphipoda, Mytilus
9	0.5	1.50			Hydrozoa, Amphipoda, Mytilus
12	0.25	<del>0.937</del> 0.937			Hydrozoa, Amphipoda, Mytilus
25	0.25	<del>28.9</del> 28.9			Annelida, Amphipoda, Mytilus.
50	3.5	22.2			Hydrozoa, Annelida, Amphipoda, Mytilus, Asteriscus
9		1.84			Hydrozoa, Amphipoda, Mytilus
9		1.18			1 1/2 x 5 1/2 x 9 per 1 link
25		27.5			2 x 7 x 12 stud "
50		18.75			"



T

11  
Figures

Brigantine Shoal Lighted Whistle Buoy

2 B S. Located off Atlantic City. Exposed 11.63

months; 11 April 1944 to 30 March 1945. Depth of  
water 60 ft. Depth of fending: (chain not relieved)-  
unknown. Type 9-38. Paint: red lead. Mooring:  
not seen.

Chain not relieved. Body Buoy, huddle, and  
visible part of chain had patchy mussel fending.

T 11

Brigantine Shoal Lighted Whistle Buoy 2 B S.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 6	2.0	0.433			Algae, Acorn Barnacles, Amphysida, Mytilus
9	1.75	3.625			Acorn Barnacles, Amphysida, Mytilus, other Pelycypoda.
12	0.375	0.594			Algae, Acorn Barnacles, Mytilus
18	1.25	2.875			Hydrozoa, Annelida, Bryozoa, Acorn Barnacles, Amphysida, Mytilus, other Pelycypoda
chain 9		6.63			Hydrozoa, Amphysida, Mytilus.
chain 9		total wt 4.3			$1\frac{1}{2} \times 5\frac{1}{2} \times 9$ per 1 link



T

12

Requies

Delaware Bay Approach North Swept Channel  
Lighted Whistle Buoy N-5. Exposed 7.56 months,  
15 Aug. 1944 & 2 April 1945. Depth of water: not  
recorded. Depth of fathoming: unknown. Type: 9-38  
Paint: red lead. Mooring: not seen.

Chain not relieved. Photos only. Light  
mussel and hydroid fouling. Buoy body has  
only algae. Tubularia under box; mussels, algae, and  
hydroids on spar.

T-12

Delaware Bay Appraised North Sweet Channel Lighted  
Whistle Buoy N-5.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
buoy 1	2.5	0.313			Algal Amphipoda, Mytilus.
7	2.75	0.624			Algal, Hydrozoa, Goose Barnacles, Amphipoda, Nudibranchiata, Mytilus.
9	0.62	0.538			Algal, Hydrozoa, Acorn Barnacles, Amphipoda, Mytilus,
15					Algal, Hydrozoa, Acorn Barnacles, Goose Barnacles, Amphipoda, Mytilus
20	1.25	0.583			Hydrozoa, Bryozoa, Acorn Barnacles, Amphipoda, Gastropoda, Mytilus, other Pelecypoda
chain 9		0.326			Algal, Hydrozoa, Amphipoda, Mytilus,
chain 9		total wt. 0.214			1 1/2 x 6 x 9 stud; per line / per 1 link



T 13  
7 gire

Delaware Bay Approach North Swept Channel  
Lighted Whistle Buoy N 1. Exposed 7.56 months, 15

Aug. 1944 to 2 April 1945. Depth of water. not recorded.

Depth of fouling not seen. Type : 9-38. Paint: red lead.

Mossing: not seen

Chain not relieved this time. Where seen had  
few mussels among hydroids. Algae and mussels on  
sides of buoy; Tergas at 6 ft and scattered elsewhere.  
Mussels and hydroids under box on spar, but in patches,  
eg. between guards. Bridle nearly clean.

Delaware Bay Approach North Sweep Channel Lighted  
 White Buoy No. 11.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
3	2.5	0.677			Algae, Hydrozoa, Goose Barnacles, Amphipoda, Mytilus.
6	1.25	0.576			Algae, Hydrozoa, Acorn Barnacles, Amphipoda, Mytilus.
6					Algae, Goose Barnacles, Amphipoda.
7	0.75	0.546			Algae, Hydrozoa, Annelida, Bryozoa, Amphipoda, Nudibranchiata, Mytilus.
9	0.75	0.611			Algae, Hydrozoa, Acorn Barnacles, Amphipoda, Nudibranchiata, Mytilus, Eggs.
12	0.75	0.942			Algae, Hydrozoa, Acorn Barnacles, Goose Barnacles, Amphipoda, Other Crustacea, Mytilus.



T<sup>14</sup>  
Figuier

Delaware Bay North Inlet Channel Lighted Whistle  
Buoy N3. Located in Delaware Bay region. Exposed  
7.56 months, 15 Aug 1944 to 2 April 1945. Depth  
of water not recorded. Depth of fouling not seen.  
Type 9-38. Paint: red lead. Mooring not seen.

Chain not relieved. No fouling except a  
light hydroid fuzz at shackle and 3 ~~0~~ widely spaced  
links in first 30 ft. Buoy very lightly fouled; in  
patches; mussels, hydroids, occasional Lepas.

T 14

## Delaware Bay North Sweet Channel Lighted Whistle Buoy N3

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 6	0.5	0.736			Algal, Hydrozoa, Acorn Barnacles, Loose Barnacles Amphipoda, Mytilus,
8	0.5	0.518			Hydrozoa, Loose Barnacles, Amphipoda, Mytilus.
10	0.5	0.401			Algal, Hydrozoa, Bryozoa, Acorn Barnacles, Amphipoda, Nudibranchia, Mytilus
18	0.5	1.03			Algal, Hydrozoa, Actinaria, Amphipoda, Mytilus,
Chain 9		0.486			Hydrozoa, Amphipoda, Mytilus.
Chain 9		<del>0.311</del> 0.311			$1\frac{1}{2} \times 5\frac{1}{2} \times 9$ per . hick



T

15

Figures

~~Det~~ Delaware Bay Approach North Sweep

Channel Lighted Bell Buoy N 4. Located at Delaware

Bay region. Exposed 11.53 months, 16 March 1944 to

2 April 1945. (Interim service: moved 15 April 44(?).

Depth of water not recorded. Depth of fouling not

seen. Type 8-20. Paint: red lead. Mooring: not

seen.

Chain not relieved. Mussels and amphipods  
throught. Same on buoy

T 15

Delaware Bay Approach North Sweep Channel  
Lighted Bell Buoy # 4.

Depth of Water	Thickness	Weight	Weight of Water	Volume of Water	Fouling
buoy 5	1.25	2.375			Algae, Hydrozoa, Annelida, Bryozoa, Acorn Barnacles, Amphipoda, Gastropoda, Mytilus, other Pelecypoda.
6	0.75	1.25			Algae, Hydrozoa, Bryozoa, Acorn Barnacles, Amphipoda, Mytilus, other Pelecypoda.
8	0.75	1.25			Algae, Hydrozoa, Annelida, Amphipoda, Mytilus, other Pelecypoda.
chain 8		3.21			Algae, Hydrozoa, Amphipoda, Gastropoda, Mytilus, other Pelecypoda.
30		2.47			Hydrozoa. Or Amphibia. Gastropoda, Mytilus, other Pelecypoda.
chain 8		total wt 1.5			$\left. \begin{array}{l} 1\frac{1}{4} \times 4\frac{1}{2} \times 8 \\ 1\frac{1}{2} \times 6 \times 9 \end{array} \right\} \text{ per link}$
30		1.625			



T 16  
figure

Delaware Bay Approach North Sweep Channel  
Lighted Whistle Buoy N 7. Located at Delaware  
Bay region. Exposed 7.63 months 15 Aug 1944 to  
4 April 1945. Depth of water not recorded. Depth of  
faueling not seen. Type 9-35. Paint: red lead. Mooring  
not seen.

Chain not relieved. Buoy body ~~is~~  
mostly algae (Entomorphia). Under body spent  
and brindle of Tubularian faueling with some mussels and  
sponges (?).

T 16

Delaware Bay Approach North Sweep Channel Lighted Whistle

Depth of Water	Trans- parenc y	Weight	Weight of Water	Volume of Water	Fouling
9	1.25	0.609			Hydrozoa Actinaria, Annelida, Bryozoa, Acorn Barnacles, Amphipoda, Other Gastropoda, Mytilus.

T. 17  
Figures

Delaware Bay Approach North Inlet Channel  
Lighted Bell Buoy N 6. Located at Delaware Bay  
region. Exposed <sup>(10.6)</sup> 12.6 months, 16 May 1944 to 4 April  
1945. Depth of water not recorded. Depth of fouling  
not recorded. Type 8-208. Paint: red lead. Mooring  
not seen.

Chain not relieved. Buoy has Enteromorpha  
to 4 ft; then scattered mussels among amphipods,  
same on fiddle and chain as far as seen.



T 17

Delaware Bay Approach ~~North~~ Sweep Channel Light

Bell Buoy #6.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
5	0.375	0.450			Algae, Hydrozoa, Bryozoa, Amphipoda, also Gastropoda, Mytilus.
?					Algae, Amphipoda, Mytilus

T-18

*Figures*

Delaware Bay Approach South Swivel Channel  
Lighted Bell Buoy 1. Located in Delaware Bay  
Region. Exposed 11.06 months, 4 May 1944 to  
6 April 1945. Depth of water 114 ft. Depth of  
fouling not seen. Type 9-32. Paint: red lead.

Mooring not seen.

Chain <sup>hauled</sup> fouled up to 40 ft. Hydrozoa on  
chain, patchy distribution. Sample at 40 ft was  
heaviest fouling visible in chain. Lepas also on  
chain. Buoy has Lepas and algae. Few mussels  
on swivel, probably old. Lepas heavy on body, lighter  
under body and on spout. Bridle like chain. No  
Conchoderma.

T 18

Delaware Bay Approach South Sweep Channel  
Lighted Bell Buoy 1.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
Buoy 1		0.860			Algae. Goose Barnacles, amphipoda, mollusks.
5		1.06			Algae. Goose Barnacles,
7		0.099			Algae, Acorn Barnacles, Goose Barnacles, Amphipoda.
12		<del>0.408</del>			
16		0.308			Algae, Acorn Barnacles,
Chain 12		0.621			Algae, Hydrozoa, Goose Barnacles, Amphipoda, Nudibranchiata, mollusks. Eggs
40		1.01			Hydrozoa, Goose Barnacles, Amphipoda, Nudibranchiata, Eggs.
Chain 12		0.408			1 1/2 x 6 x 9 per link
40		0.666			



T 19  
Figures.

Delaware Bay Approach South Sweep Channel  
Lighted Bell Buoy Z. Located in Delaware Bay  
region. Exposed 9.26 months, 28 June 1944 to  
6 April 1945. Depth of water 144 ft. (charted) Depth  
of fowling 110 ft. Type 9-32. Paint: red lead.  
mooring: iron hemisphere.

Fouling negligible on chain below 30 ft except  
patch at about ~~70~~ 70 ft. Buoy has Lepas,  
Hydroids, algae, like T-17 but lighter Lepas, heavier  
Hydroids especially under body. Sinker had ~~1~~ patch  
Tubularia. Many mussels around waterline and on  
tridle.

19

Delaware Bay Approach South Sweep Channel  
Lighted Bell Buoy Z.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
buoy 0	0.5	0.174			Algae, Hydrozoa, Goose Barnacles, Amphipoda, Mytilus,
1		1.5			Algae, Hydrozoa, Goose Barnacles, Mytilus,
7	1.25	<del>1.25</del> 0.399			Hydrozoa, Goose Barnacles, Amphipoda, Nudibranchiata,
9	1.25	0.250			Algae, Hydrozoa, Acorn Barnacles, Amphipoda, Nudibranchiata, Egg.
chain 9		0.615			Algae, Hydrozoa, Goose Barnacles, Amphipoda, Nudibranchiata, Mytilus.
30		0.421			Algae, Hydrozoa, Nudibranchiata, Mytilus, Egg
chain 9		0.399			} per 1 inch $1\frac{5}{8} \times 6 \times 10$
30		0.324			

T 20  
Figures

Wreck Lighted Bell Buoy 3. Located at Delaware Bay region. Exposed 12.2 months, 31 March 1944 to 6 April 1945. Depth of water 54 ft. Depth of fanning not seen. Type: 8-20. Paint: red lead. Mooring not seen.

Chain not relieved. Where seen it had heavy mussel fanning, possibly older than fanning. Mussels appeared to end at about 25 ft. then hydroids but not seen below about 25 ft. Buoy had algae and scattered mussels; bridle had hydroids and mussels.



7 20

Wreck Lighted Bell Buoy, 3.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
5		<del>0.200</del> 0.300			Hydrozoa, Annelida, Acorn Barnacles, Amphipoda, Mytilus.
?					Algal, Hydrozoa, Bryozoa, Acorn Barnacles, Amphipoda, Actis Nastropoda, Mytilus, algae.

T 21

<sup>Figueroa</sup>

Station Busy for Hen and Chickens Shovel  
Lighted White Busy, H.C. Located at Delaware  
Delaware Bay region. Exposed 12.5 months,  
21 March 1944 to 6 April 1945. Depth of water  
24 ft. Depth of 24 ft. Type Can (S). Paint: red  
lead. Mooring: not seen.

Like T-20, algae with very scattered mussels.

T 21

Station Buoy for Her and Chickens Shoal Lighted  
with

Depth of Water	Trans- miss	Weight	Weight of Water	Volume of Water	Fouling
6		0.605			Algae, Hydrozoa, Bryozoa, Acan- Barnacles, Amphipoda, Mytilus.



T 22

<sup>Figures</sup>

Hen and Chickens Shoal Outer End Buoy 1.

Located at Delaware Bay Region. Exposed 12.2

months, 31 March 1944 to 6 April 1945.

Depth of water 24 ft. Depth of fowling 24 ft. Type:

tall can. Paint: red lead. Mooring: not seen.

Like T 200 and T 202, but more muscular.

T - 22

Ken and Chicken Shoal Outer End Buoy 1.

Depth of Water	Thick- ness	Weight	Weight of Water	Volume of Water	Fouling
3	1.375	1.25			Algae, Hydrozoa, Annelida, Bryozoa, Acan Barnacles, Amphipoda, Mytilus, other Pelecypoda.
9	1.0	2.25			Hydrozoa, Annelida, Bryozoa, Acan Barnacles, Amphipoda, Other Crustacea, Gastropoda, Mytilus, other Pelecypoda.

T Series

6-5 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
-------	---------	--------	-------	--------	--------

T-1	1-12	48.9	18.6	32.5	19
-----	------	------	------	------	----

-8	9-30	48.3	19.6	32.3	18
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Aver. of Aver.	(All)	48.6	19.1	32.4	
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Wgt. Aver.	(All)	48.6	19.1	32.4	
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T Series

5-10 mm mussels

Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
-------	---------	--------	-------	--------	--------

T-1	1-12	51.7	19.1	29.5	41
-----	------	------	------	------	----

8	9-30	51.0	17.5	31.7	72
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Aver. of Aves.	(All)	51.1	18.3	30.6	
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Wgt. Aver.	(All)	51.0	18.1	30.9	
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# T Series

10-20 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	1-12	52.9	18.3	28.8	108
-----	------	------	------	------	-----

T-8	9-30	51.1	17.8	31.2	25
-----	------	------	------	------	----

Aver. of Aver. (All)	52.0	18.1	30.0	
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Wgt. Aver. (All)	52.6	18.2	29.3	
------------------	------	------	------	--

# T Series

20-30 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
-------	---------	--------	-------	--------	--------

T-1	1-12	53.7	18.2	28.1	46
-----	------	------	------	------	----

1-8	9-30	51.0	19.6	29.5	8
-----	------	------	------	------	---

Aver. of Aver.	(All)	52.4	18.9	28.8	
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Wgt. Aver.	(All)	53.3	18.4	28.3	
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# T Series

40-50 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	12	53.2	20.4	26.4	6
-----	----	------	------	------	---

- 8	9-30	52.1	21.2	26.8	54
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Aver. of Aver. (All)		52.7	20.8	26.6	
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Wgt. Aver. (All)		52.2	21.1	26.8	
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# T Series

50-60 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	12	53.0	20.3	26.7	7
-----	----	------	------	------	---

- 8	9-30	52.2	21.3	26.4	72
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Aver. of Aver.	(All)	52.6	20.8	26.6	
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Wgt. Aver.	(All)	52.3	21.2	26.4	
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T Series

60-70 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	12	53.6	20.3	26.0	14
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-8	9-30	57.7	21.4	26.4	14
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Aver. of Aver. (All)		52.7	20.9	26.2	
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Wgt. Aver. (All)		52.7	20.9	26.2	
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# T Series

70-80 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	12	53.2	21.5	25.3	14
-----	----	------	------	------	----

-8	—	—	—	—	—
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Aver. of Aver. (T1)		53.2	21.5	25.3	
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Wgt. Aver. (T1)		53.2	21.5	25.3	
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T Series

80-90 mm mussels  
Averages for all buoys

Buoys	Samples	Length	Width	Height	Number
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T-1	12	54.2	21.2	24.5	3
-----	----	------	------	------	---

- 8	—	—	—	—	—
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Aver. of Aver. (All)		54.2	21.2	24.5	
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Wgt. Aver. (All)		54.2	21.2	24.5	
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T-1

1 ft.

128 mussels

class	0-5	5-10	10-20	20-30
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Number	2	21	81	24
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Length	48.9	50.8	53.2	54.8
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Width	19.8	19.1	18.1	17.9
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Height	31.4	30.1	38.6	27.2
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T-1				1 ft.					
L	Lat	H	T	l	w	h	L/w	L/H	H/w
2.1	2.1	5.7	49.0	54.3	17.8	28.0	3.0.6	1.94	1.58
2.2	2.2	5.7	49.9	56.0	19.6	24.3	2.6.6	2.31	1.23
2.3	2.3	5.7	51.5	55.2	18.2	26.5	3.0.3	2.10	1.45
2.4	2.4	5.7	42.7	55.5	17.8	26.7	3.1.2	2.08	1.50
2.5	2.5	5.7	53.1	53.0	18.8	28.1	2.8.2	1.89	1.49
2.6	2.6	5.7	49.6	55.0	17.3	27.6	3.1.8	1.99	1.59
2.7	2.7	5.7	48.6	52.8	17.4	29.7	3.1.4	1.79	1.70
2.8	2.8	5.7	47.0	54.0	18.3	27.7	2.9.6	1.95	1.51
2.9	2.9	5.7	45.2	54.4	18.8	26.8	2.9.0	2.03	1.44
3.0	3.0	5.7	48.0	54.1	18.3	27.5	2.9.5	1.97	1.50
3.1	3.1	5.7	42.9	55.1	18.2	26.8	3.0.2	2.05	1.47
3.2	3.2	5.7	39.9	54.2	18.3	27.6	2.9.6	1.96	1.51
3.3	3.3	5.7	39.5	55.2	18.2	26.6	3.0.2	2.08	1.46
3.4	3.4	5.7	46.5	58.7	15.7	25.6	3.7.4	2.29	1.63
3.5	3.5	5.7	43.2	52.7	17.8	29.4	2.9.6	1.80	1.65
3.6	3.6	5.7	43.0	54.6	18.1	27.2	3.0.1	2.02	1.50
3.7	3.7	5.7	46.7	55.0	17.5	27.4	3.1.4	1.75	1.56
3.8	3.8	5.7	43.0	54.7	18.1	27.2	3.0.2	1.81	1.50
3.9	3.9	5.7	40.0	59.0	16.0	25.0	3.6.9	1.60	1.56
4.0	4.0	5.7	41.6	53.6	17.8	28.6	3.0.2	1.78	1.61
4.1	4.1	9.1	33.1	53.1	19.3	27.5	2.2.4	1.93	1.42
4.2	4.2	9.1	35.4	55.0	17.8	27.1	3.1.0	1.78	1.52
4.3	4.3	9.1	42.5	55.0	17.6	27.3	3.7.2	1.76	1.55
4.4	4.4	9.1	37.9	55.1	17.8	27.1	3.1.0	1.78	1.52
4.5	4.5	9.1	35.8	53.8	17.7	28.4	3.0.4	1.77	1.60
4.6	4.6	9.1	36.3	53.4	19.0	27.6	2.8.1	1.90	1.45
4.7	4.7	9.1	30.3	55.1	16.5	28.4	3.3.4	1.65	1.72
4.8	4.8	9.1	37.7	55.7	17.7	26.6	3.1.4	1.77	1.49
4.9	4.9	9.1	34.8	53.2	18.4	28.4	2.8.9	1.84	1.55
5.0	5.0	9.1	37.5	53.3	19.5	27.2	2.7.4	1.94	1.40
5.1	5.1	9.1	36.6	54.1	17.5	28.4	3.1.0	1.75	1.62
5.2	5.2	9.1	35.5	55.0	18.0	27.0	3.0.5	1.80	1.50
5.3	5.3	9.1	32.8	54.5	17.7	27.7	3.0.9	1.77	1.57

T-1 142. 284

L	W	H	T	L	W	H	L/W	L/H	H/W
12.2	5.4	9.3	32.5	54.7	16.6	28.6	3.30	1.91	1.72
12.2	6.0	9.2	33.7	54.0	17.8	28.2	3.04	1.92	1.58
12.2	5.8	9.0	33.0	55.2	17.5	27.2	3.14	2.02	1.55
13.2	6.8	10.0	36.0	53.3	18.9	27.8	2.82	1.92	1.47
12.2	5.1	9.2	32.3	53.9	15.8	30.3	3.41	1.78	1.92
13.2	5.4	9.0	31.9	54.9	16.9	28.2	3.24	1.94	1.66
13.2	5.5	9.6	33.2	54.5	16.6	28.8	3.29	1.89	1.74
15.6	5.1	8.3	28.9	54.0	17.6	28.4	3.06	1.90	1.61
17.7	5.2	8.1	30.7	55.7	16.9	27.3	3.29	2.04	1.61
16.3	4.1	6.8	27.2	59.9	15.1	25.0	3.98	2.40	1.65
14.5	4.6	7.3	26.4	55.0	17.4	27.6	3.15	1.99	1.59
15.6	5.6	8.1	29.3	53.2	19.1	27.6	2.79	1.94	1.45
14.8	5.3	10.7	30.8	48.0	17.2	34.8	2.79	1.38	2.02
16.4	5.4	8.1	29.9	54.9	18.0	27.0	3.04	2.02	1.50
14.6	5.7	7.3	27.6	52.9	20.6	26.4	2.56	2.00	1.28
15.5	5.1	8.3	29.2	53.1	18.5	28.4	2.87	1.87	1.54
15.5	5.2	8.8	29.9	51.8	18.7	29.4	2.76	1.76	1.57
16.3	5.2	8.6	30.3	54.5	17.1	28.4	3.17	1.92	1.65
15.2	5.3	7.2	27.7	54.8	19.1	26.0	2.87	2.11	1.36
15.0	4.4	7.3	26.7	56.2	16.4	27.4	3.41	2.06	1.66
14.5	4.6	7.7	26.8	54.1	17.1	28.7	3.15	1.89	1.67
14.7	5.6	7.8	27.1	54.2	16.9	28.8	3.20	1.89	1.69
16.2	5.0	8.2	29.4	55.1	17.0	27.8	3.24	1.97	1.64
16.0	5.5	8.6	30.1	53.1	18.3	28.6	2.91	1.86	1.56
13.0	5.3	7.6	25.9	50.2	20.4	29.4	2.45	1.71	1.43
13.2	5.5	7.5	25.2	52.3	17.8	29.8	2.94	1.76	1.66
15.7	5.3	8.1	28.1	56.0	15.3	28.8	3.66	1.94	1.88
16.2	5.2	8.3	29.7	54.5	17.5	27.9	3.12	1.95	1.60
15.6	5.8	7.5	26.9	54.2	17.8	27.9	3.04	1.95	1.56
15.6	5.3	7.7	27.6	53.0	19.2	27.9	2.76	1.91	1.45
15.4	5.6	7.0	25.0	53.5	18.4	28.0	2.91	1.91	1.52
15.8	4.8	7.3	26.6	55.6	16.9	27.4	3.30	2.03	1.62
15.7	5.0	8.2	27.9	52.7	17.9	29.4	2.94	1.79	1.64



T-1

150

3-4

L	W	H	T	L	W	H	L/W	L/H	H/W
22.2	4.2	7.5	24.9	53.0	16.9	30.1	3.14	1.76	1.78
19.5	4.6	7.8	26.5	49.8	21.1	29.0	2.36	1.71	1.37
18.2	5.1	8.6	28.2	50.4	19.1	30.4	2.63	1.65	1.59
15.5	4.5	7.6	26.6	54.5	16.9	28.6	3.22	1.91	1.69
14.4	5.0	8.4	27.8	51.8	18.0	30.2	2.86	1.89	1.68
13.1	4.8	7.6	25.8	50.7	21.3	27.9	2.38	1.82	1.30
12.7	4.2	6.5	23.3	54.5	17.6	28.0	3.10	1.95	1.58
9.8	5.0	7.6	28.0	52.8	20.0	27.1	2.64	1.95	1.35
14.6	5.6	8.4	28.6	51.0	19.6	29.4	2.61	1.74	1.50
13.7	4.8	7.6	25.5	53.7	16.5	29.8	3.26	1.80	1.35
13.6	4.5	7.7	25.8	52.7	17.4	29.8	3.02	1.77	1.71
15.0	4.8	7.5	24.7	52.5	17.0	30.4	3.10	1.73	1.78
13.2	4.6	7.5	23.5	52.7	19.6	27.6	2.70	1.91	1.41
12.5	4.8	7.5	24.1	51.8	17.0	31.1	3.05	1.67	1.83
11.5	5.0	8.5	22.7	51.1	20.2	28.6	2.52	1.79	1.41
11.4	4.1	6.6	22.1	51.6	18.5	29.8	2.78	1.73	1.61
11.7	4.5	8.5	22.7	51.6	19.8	28.6	2.60	1.80	1.44
12.3	4.1	7.5	23.9	51.5	17.1	31.4	3.00	1.64	1.83
10.5	4.3	5.7	21.8	48.2	21.1	30.7	2.28	1.57	1.46
12.4	4.1	7.6	24.1	51.5	17.0	31.5	3.02	1.63	1.85
13.6	4.1	7.5	25.2	54.0	16.2	29.8	3.32	1.81	1.83
12.6	4.2	5.6	25.0	50.5	19.2	30.4	2.82	1.66	1.58
11.4	4.6	6.7	22.7	50.2	20.2	29.5	2.48	1.70	1.46
12.5	4.6	5.8	23.9	52.3	19.2	28.4	2.72	1.84	1.48
11.5	4.8	6.7	22.7	50.6	19.8	29.5	2.56	1.72	1.49
13.5	4.1	2.4	24.0	56.2	17.0	26.7	3.30	2.11	1.56
15.6	4.5	2.3	23.3	54.0	19.3	26.6	2.80	2.03	1.37
12.7	4.2	7.5	24.3	52.2	16.8	30.9	3.10	1.70	1.83
12.0	3.9	6.3	19.5	51.2	16.4	32.3	3.12	1.59	1.97
7.8	4.5	6.3	17.8	41.5	23.0	35.4	1.80	1.17	1.53
11.7	4.5	6.7	23.0	50.9	20.0	29.1	2.54	1.75	1.45
10.5	4.5	5.2	20.2	52.0	22.2	25.7	2.34	2.02	1.15
9.5	3.2	5.5	18.2	52.1	17.6	30.2	1.73	1.72	1.72



T-1

1st.

7/8 4

L	W	H	T	L	W	H	L/W	L/H	H/W
11.5	4.6	5.3	21.4	53.7	21.5	24.8	2.50	2.17	1.15
10.0	3.5	5.5	19.0	52.6	18.4	28.9	2.86	1.82	1.57
10.6	3.6	5.4	19.6	54.1	18.3	27.6	2.95	1.96	1.50
10.7	3.2	5.0	18.9	56.6	16.9	26.5	3.34	2.14	1.56
9.5	3.2	5.6	18.3	51.9	17.5	30.6	2.97	1.69	1.75
9.5	3.7	5.9	19.1	49.7	19.4	30.9	2.56	1.61	1.59
8.3	3.5	4.7	16.5	50.3	21.2	28.5	2.37	1.76	1.34
10.2	3.5	6.2	20.4	50.0	17.1	32.8	2.92	1.52	1.91
8.0	3.4	4.5	15.9	50.3	21.4	28.3	2.36	1.78	1.32
9.3	3.6	5.5	18.4	50.5	19.5	29.9	2.58	1.69	1.53
8.2	3.1	5.5	16.8	48.8	18.4	32.7	2.64	1.49	1.77
9.1	3.1	5.0	17.2	52.9	18.0	29.0	2.94	1.82	1.61
10.2	3.2	5.5	18.9	54.0	16.9	29.1	3.19	1.86	1.72
10.2	3.2	5.5	18.9	54.0	16.9	29.1	3.19	1.86	1.72
10.6	3.2	5.5	19.3	55.0	16.6	28.5	3.32	1.93	1.72
9.5	3.8	5.9	19.2	49.5	19.8	30.7	2.50	1.61	1.55
8.5	3.0	5.6	17.1	49.7	17.5	32.8	2.83	1.52	1.87
8.2	3.7	5.7	17.6	46.5	21.0	32.4	2.22	1.44	1.54
9.5	3.2	5.5	18.2	52.1	17.6	30.2	2.96	1.72	1.72
7.0	2.3	3.5	12.8	54.7	18.0	27.4	3.04	2.00	1.52
8.2	3.2	4.5	15.9	51.5	20.1	28.3	2.56	1.82	1.40
8.6	3.5	5.5	17.6	48.9	19.9	31.2	2.46	1.56	1.57
8.5	2.3	4.5	15.3	55.5	15.0	29.4	2.70	1.89	1.96
7.7	2.5	4.4	14.6	52.7	17.1	30.2	3.08	1.75	1.76
7.3	2.5	4.1	13.9	52.5	18.0	29.5	2.92	1.78	1.64
7.6	2.5	3.5	13.6	56.0	18.4	25.7	3.04	2.17	1.40
6.0	2.7	3.5	12.2	49.1	22.1	28.7	2.22	1.71	1.29
4.0	1.3	2.2	7.5	53.3	17.3	29.4	3.08	1.82	1.69
2.0	1.0	1.5	4.5	44.5	22.2	33.4	2.00	1.74	1.50

T<sub>1</sub>

12ft.

McDrie Shoal Lighted Whistle Station Buoy 2

47 mussels

Class	0-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Number	17	20	27	22	17	6	7	14	14	3
Length	48.7	51.4	52.6	52.5	52.2	53.2	53.0	53.6	53.2	54.2
Width	17.4	19.1	18.5	18.5	19.3	20.4	20.3	20.3	21.5	21.2
Height	33.6	29.5	28.9	29.0	28.5	26.4	26.7	26.0	25.3	24.5



T-1 12 ft. 1 of 5									
mc Cric Shoal Lighted Whistle Station Buoy 2									
L	W	H	T	L	W	H	1/2	1/4	H/W
85.1	34.6	37.3	157.0	54.2	22.0	23.8	2.46	2.28	1.08
180.0	33.4	28.2	151.6	52.7	22.0	25.2	2.40	2.09	1.14
77.8	33.2	37.6	148.6	52.2	22.4	25.3	2.34	2.06	1.13
76.1	30.1	35.2	141.4	53.8	21.2	24.9	2.53	2.16	1.17
74.1	30.5	36.3	137.9	51.6	22.2	26.8	2.33	1.96	1.19
183.1	29.5	36.8	149.4	55.6	19.7	24.6	2.82	2.26	1.25
72.9	30.4	36.2	139.5	52.2	21.8	26.0	2.40	2.01	1.19
71.8	27.2	33.5	132.5	54.1	20.5	25.3	2.64	2.14	1.23
74.6	31.2	34.6	140.4	53.1	22.2	24.6	2.39	2.10	1.11
71.7	28.5	33.7	133.9	53.6	21.3	25.2	2.52	2.13	1.18
71.3	31.3	35.7	138.3	51.5	22.6	25.8	2.28	2.00	1.14
74.9	30.2	35.6	140.7	53.2	21.4	25.4	2.48	2.10	1.18
71.4	32.7	32.7	136.8	52.2	23.9	23.9	2.18	2.18	1.00
69.5	27.3	33.1	129.9	53.5	21.0	25.5	2.54	2.10	1.21
73.4	29.3	30.5	133.2	55.0	22.0	22.9	2.50	2.40	1.04
72.3	28.2	35.4	135.9	53.2	20.8	26.0	2.56	2.04	1.25
69.6	27.9	32.7	130.1	53.4	21.4	25.1	2.48	2.12	1.17
74.7	22.3	36.4	133.4	55.8	16.7	27.4	3.35	2.05	1.63
70.2	29.1	32.5	131.8	53.3	22.1	24.7	2.41	2.16	1.11
69.2	21.6	31.6	122.4	56.5	17.6	25.8	3.20	2.19	1.46
63.9	26.2	30.1	120.2	53.1	21.8	25.0	2.44	2.12	1.15
61.5	24.7	32.9	119.1	51.6	20.7	27.6	2.49	1.87	1.33
66.5	25.6	31.3	123.4	53.8	20.7	25.4	2.12	2.12	1.22
66.9	21.7	28.5	122.1	54.7	21.8	23.4	2.50	2.34	1.06
159.8	22.7	29.1	111.6	53.6	20.4	26.0	2.64	2.06	1.28
65.7	21.6	32.5	119.8	55.0	18.0	27.1	3.04	2.02	1.50
60.3	21.4	34.1	115.8	52.1	18.4	29.4	2.82	1.77	1.59
60.2	22.1	30.5	112.8	53.5	19.6	27.0	2.72	1.97	1.38
159.7	22.3	31.2	113.2	52.7	19.7	27.5	2.68	1.91	1.40
65.5	24.1	31.7	121.3	53.9	19.9	26.1	2.72	2.06	1.31
62.5	23.6	29.5	115.6	54.0	20.4	25.5	2.65	2.12	1.25
60.5	24.1	29.5	114.1	53.0	21.1	25.8	2.51	2.05	1.22
60.2	25.4	29.7	115.3	52.1	22.0	25.8	2.37	2.02	1.17



T-1 12 ft 2 of 5  
mo one Shoal Lighted whistle station buoy a

L	W	H	T	L	W	H	L <sub>w</sub>	H <sub>H</sub>	H <sub>W</sub>
57.8	20.1	29.6	107.5	53.7	18.7	27.5	2.87	1.95	1.47
58.2	23.6	27.2	109.0	53.4	21.6	25.0	2.47	2.14	1.15
58.0	21.6	28.9	108.5	53.4	19.9	26.6	2.68	2.01	1.34
54.1	21.0	28.5	103.6	52.3	20.3	27.5	2.57	1.90	1.36
54.9	22.7	28.2	105.8	51.9	21.5	26.6	2.42	1.95	1.24
47.6	18.7	25.5	91.8	52.2	20.4	27.3	2.56	1.87	1.36
45.1	17.2	25.0	87.3	51.6	19.7	28.6	2.62	1.94	1.45
46.2	15.5	21.4	83.1	55.5	18.6	25.8	2.98	2.15	1.38
45.2	18.3	22.7	86.2	52.3	21.2	26.4	2.46	2.46	1.24
40.6	14.1	17.4	72.1	56.3	19.5	24.1	2.88	2.34	1.23
45.1	20.2	23.2	88.5	51.0	22.8	26.2	2.23	1.94	1.15
37.4	14.1	20.9	72.4	51.7	19.5	28.9	2.66	1.79	1.48
39.1	15.8	19.9	74.8	52.2	21.1	26.6	2.48	1.96	1.26
39.4	14.0	20.4	73.8	53.4	19.0	27.6	2.82	1.93	1.46
36.4	14.6	20.2	71.2	51.1	20.5	28.4	2.50	1.80	1.38
36.1	15.4	20.4	71.9	50.2	21.4	28.4	2.34	1.77	1.32
35.7	13.0	18.5	67.2	53.1	19.3	27.5	2.74	1.93	1.42
38.3	12.9	21.4	72.6	52.8	17.7	29.4	2.97	1.79	1.58
33.6	12.2	18.6	64.4	52.2	18.9	28.9	2.75	1.81	1.52
34.9	12.3	19.4	66.6	52.4	18.5	29.2	2.84	1.80	1.58
32.4	12.4	17.4	62.2	52.0	19.9	28.0	2.61	1.86	1.40
32.4	12.7	18.6	63.7	50.8	19.9	29.2	2.55	1.74	1.46
30.3	10.5	16.8	57.6	52.5	18.2	29.2	2.88	1.80	1.60
29.1	10.4	16.0	55.5	52.4	18.7	28.8	2.80	1.82	1.54
31.8	10.6	16.5	58.9	54.0	18.0	28.0	3.00	1.93	1.56
30.0	10.1	15.8	55.9	53.6	18.1	28.3	2.97	1.90	1.56
31.4	11.2	17.4	60.0	52.3	18.7	29.0	2.81	1.80	1.55
29.1	9.1	15.6	53.8	54.0	16.9	29.0	3.20	1.86	1.72
27.2	9.5	16.3	53.0	51.3	17.9	30.8	2.86	1.67	1.72
25.6	9.6	14.1	49.3	52.0	19.5	28.6	2.77	1.82	1.47
30.0	12.5	17.6	60.1	49.8	20.4	29.3	2.40	1.70	1.41
29.4	10.8	16.1	56.3	52.2	19.2	28.6	2.72	1.82	1.49
30.1	10.2	16.4	56.7	53.1	18.0	28.9	2.95	1.84	1.61

T-1

12 ft

3 of 5

mo. Crea. Shoal Lighted w. light Station buoy 2

L	W	H	T	L	W	L	4W	4H	H/W
29.1	11.6	16.6	57.3	50.8	20.2	29.0	2.50	1.75	1.43
28.5	10.0	16.8	55.3	51.5	18.1	30.4	2.85	1.70	1.68
27.4	9.7	15.5	52.6	52.1	18.4	29.4	2.83	1.77	1.60
25.6	8.6	12.8	47.0	54.5	18.3	27.2	2.98	2.00	1.49
26.7	8.5	14.1	49.3	54.2	17.2	28.6	3.14	1.90	1.66
25.0	8.7	13.4	47.1	53.0	18.5	28.4	2.87	1.86	1.54
23.1	9.5	12.4	45.0	51.4	21.1	27.6	2.44	1.86	1.31
26.0	9.2	14.6	49.8	52.1	18.5	29.4	2.83	1.78	1.59
29.7	10.1	15.7	55.5	53.5	18.2	28.3	2.94	1.89	1.55
27.3	9.4	15.6	52.3	52.2	17.9	29.8	2.90	1.75	1.66
27.5	8.2	13.6	46.3	53.0	17.7	29.4	2.99	1.80	1.66
23.6	7.3	12.6	43.5	54.2	16.8	29.0	3.24	1.87	1.73
22.2	8.5	13.1	43.8	50.6	19.4	29.9	2.61	1.69	1.54
20.2	6.4	12.7	39.3	51.5	16.3	32.3	3.16	1.59	1.99
19.4	6.8	10.5	36.7	52.8	18.5	28.6	2.86	1.85	1.54
19.2	6.5	9.1	34.8	55.1	18.7	26.2	2.96	2.12	1.40
21.4	7.3	12.3	41.0	52.2	17.8	30.0	2.94	1.74	1.68
20.6	7.6	10.4	38.6	53.4	19.7	27.0	2.71	1.98	1.37
20.7	7.8	10.5	39.0	53.0	20.0	26.9	2.66	1.97	1.35
15.5	5.3	8.1	28.9	53.6	18.4	28.0	2.92	1.91	1.53
19.1	6.4	10.1	35.6	53.6	18.0	28.4	2.98	1.89	1.58
19.3	6.6	10.8	36.7	52.6	18.0	29.4	2.92	1.79	1.64
17.4	6.4	9.5	33.3	52.2	19.2	28.6	2.72	1.83	1.48
18.1	6.8	10.4	35.3	51.2	19.2	29.5	2.66	1.74	1.53
15.6	6.5	9.6	31.7	49.1	20.5	30.3	2.40	1.62	1.47
18.5	6.2	10.6	35.3	52.3	17.5	30.1	2.98	1.74	1.72
17.0	6.4	8.7	32.1	53.0	19.9	27.0	2.66	1.95	1.36
15.5	5.2	9.6	30.3	51.1	17.1	31.7	2.98	1.61	1.85
16.0	5.0	8.3	29.3	54.6	17.1	28.3	3.20	1.93	1.66
14.3	4.7	7.6	26.6	53.7	17.7	28.6	3.04	1.88	1.62
15.6	5.5	7.5	28.6	54.5	19.2	26.2	2.84	2.08	1.36
14.1	5.5	8.6	28.2	50.0	19.5	30.5	2.56	1.64	1.56
13.2	4.7	7.6	25.5	51.7	18.6	29.8	2.81	1.74	1.61



T-1 4 of 5  
mc Crue Shale Lighted Whistle Station Cuyoga

L.	W.	H.	T	L	W	H	LW	WH	LW
15.0	5.6	8.5	29.1	51.5	19.2	29.2	2.68	1.76	1.52
13.0	4.0	7.8	29.8	52.5	16.1	31.4	3.25	1.67	1.95
14.5	4.1	7.3	25.9	56.0	15.8	28.2	3.54	1.99	1.78
12.3	4.4	7.6	24.3	50.6	18.1	31.3	2.80	1.62	1.73
13.6	4.5	7.3	25.4	53.5	17.7	28.8	3.02	1.86	1.62
11.5	4.7	6.2	22.4	51.3	21.0	27.6	2.45	1.85	1.32
11.6	3.9	6.0	21.5	54.0	18.1	27.9	2.98	1.93	1.54
13.2	5.5	8.4	27.1	48.7	20.3	31.0	2.40	1.57	1.53
10.4	3.6	5.6	19.6	53.1	18.3	28.6	2.89	1.86	1.56
11.1	4.5	6.1	21.7	51.2	20.7	28.1	2.47	1.82	1.35
✓ 10.0	3.0	5.0	18.0	55.6	16.6	27.8	3.33	2.00	1.66
9.6	3.4	5.6	18.6	51.5	18.3	30.1	2.82	1.71	1.65
8.5	3.4	4.1	16.0	53.0	21.2	25.7	2.50	2.07	1.21
8.5	3.5	5.5	17.5	48.5	20.0	31.4	2.42	1.54	1.57
7.2	2.2	4.5	13.9	51.7	15.8	32.4	3.28	1.60	2.04
8.4	2.6	4.6	15.6	53.8	16.6	29.5	3.23	1.83	1.77
8.2	3.5	4.4	16.1	50.9	21.7	27.3	2.34	1.86	1.25
7.5	2.2	4.5	14.2	52.8	15.5	31.7	3.40	1.66	2.04
6.6	2.1	3.3	12.0	55.0	17.5	27.5	3.14	2.00	1.57
6.1	2.1	3.2	11.4	53.5	18.4	28.1	2.90	1.91	1.52
6.7	2.7	3.5	12.9	52.0	20.9	27.1	2.48	1.91	1.30
8.0	3.5	4.4	15.9	50.3	22.0	27.7	2.28	1.82	1.26
7.5	2.3	4.5	14.3	52.4	16.1	31.4	3.26	1.66	1.95
7.4	2.6	4.0	14.0	52.8	18.6	28.6	2.84	1.85	1.54
6.3	2.4	3.5	12.2	51.6	19.7	28.7	2.62	1.80	1.46
6.0	2.5	3.1	11.6	51.7	21.6	26.7	2.40	1.93	1.24
5.4	2.0	3.0	10.4	52.0	19.2	28.8	2.70	1.80	1.50
6.1	2.1	4.7	12.9	47.3	16.3	36.4	2.90	1.30	2.24
5.6	2.6	3.6	11.8	47.5	22.0	30.5	2.16	1.69	1.38
✓ 4.5	2.4	3.4	10.3	43.7	23.3	33.0	1.88	1.32	1.42
5.4	2.0	3.1	10.5	51.4	19.0	29.5	2.70	1.74	1.55
✓ 4.1	1.4	3.4	8.9	46.1	15.7	38.2	2.93	1.20	2.42
5.4	2.4	3.6	11.4	47.4	21.0	31.6	2.25	1.50	1.50



T-1

5 of 5

McCue School Lighted

Whistle

Station Buoy 2

L.	W.	H.	T	L	W	H	H <sub>W</sub>	H <sub>H</sub>	H <sub>W</sub>
4.0	1.6	2.4	8.0	50.0	20.0	30.0	2.50	1.66	1.50
4.1	1.4	3.4	8.9	46.1	15.7	38.2	2.93	1.20	2.42
4.1	1.4	2.4	7.9	51.9	17.7	30.4	2.93	1.71	1.72
3.0	1.6	2.0	6.6	45.5	24.2	30.3	1.87	1.50	1.25
3.6	1.0	2.0	6.6	54.5	15.2	30.3	3.60	1.80	2.00
3.5	1.6	2.5	7.6	46.0	21.0	33.0	2.18	1.40	1.56
3.2	1.1	2.2	6.5	49.2	16.9	33.8	2.90	1.45	2.00
3.5	1.6	2.0	7.1	49.3	22.6	28.2	2.19	1.75	1.25
3.1	1.1	2.2	6.4	48.4	17.2	34.4	2.81	1.41	2.00
3.0	1.1	2.6	6.7	44.8	16.4	38.8	2.73	1.15	2.36
3.5	1.1	2.4	7.0	50.0	15.7	34.3	3.18	1.46	2.18
2.3	0.1	1.8	4.2	54.8	2.38	42.9	23.0	1.28	18.0
3.5	1.6	2.0	7.1	49.2	22.6	28.2	2.19	1.75	1.25
2.6	1.0	1.6	5.2	50.0	19.2	30.8	2.60	1.62	1.60
2.0	0.4	1.4	3.8	52.6	10.5	36.8	5.00	1.43	3.50

T 8-11  
7/17/04

219 mussels

Class	0-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70
Number	16	67	24	6	7	43	55	1
Length	49.0	50.1	50.7	50.1	51.4	51.7	51.9	53.5
Width	19.5	18.8	18.2	20.0	20.4	20.9	21.5	20.7
Height	31.6	31.2	31.1	29.9	28.2	27.4	26.6	25.8



T8  
9 ft. buoy

10-7

L	W	H	T	L	W	H	1/2W	1/4H	H/10
54.0	24.0	28.0	106.0	51.0	22.6	26.4	2.26	1.93	1.16
55.3	23.7	30.0	109.0	50.7	21.8	27.5	2.23	1.84	1.26
55.0	23.2	29.0	107.2	51.2	21.6	27.1	2.37	1.90	1.25
54.5	23.0	27.5	105.0	52.0	21.9	27.2	2.37	1.98	1.19
54.5	22.4	26.6	98.5	52.3	20.8	27.0	2.52	1.93	1.30
50.5	21.4	27.5	99.4	50.8	21.6	27.5	2.36	1.83	1.29
52.2	21.9	28.6	102.8	51.0	21.3	27.8	2.38	1.83	1.30
52.5	20.7	28.0	101.3	52.0	20.8	27.6	2.54	1.88	1.35
54.2	20.0	27.0	101.8	53.3	17.7	27.1	2.71	1.96	1.38
54.4	23.9	26.4	104.7	52.0	22.9	25.2	2.37	2.06	1.10
53.2	22.3	28.5	104.0	51.1	21.4	27.4	2.29	1.86	1.27
51.2	20.3	30.2	101.7	50.4	22.0	27.7	2.30	1.82	1.26
58.9	24.0	31.9	114.8	57.2	21.0	27.8	2.45	1.85	1.33
54.6	20.5	26.4	98.5	52.5	20.8	26.8	2.52	1.95	1.29
55.0	24.0	28.8	107.8	51.0	22.3	26.8	2.29	1.91	1.20
52.8	19.5	26.5	98.0	53.1	19.9	27.0	2.66	1.96	1.36
51.0	21.9	25.0	97.9	52.1	21.4	25.5	2.33	2.04	1.14
57.4	25.5	26.7	109.6	52.3	22.3	22.5	2.25	2.14	1.04
53.4	23.6	26.8	103.8	51.5	22.8	25.8	2.26	1.99	1.13
57.3	22.6	30.0	111.9	53.0	20.2	26.8	2.62	1.98	1.33
56.0	22.8	30.0	108.8	51.5	21.0	27.6	2.46	1.86	1.31
53.2	22.6	27.3	104.1	51.0	22.6	24.3	2.25	1.95	1.16
55.5	23.0	27.7	107.2	51.7	21.4	26.8	2.41	1.93	1.25
53.4	22.8	27.8	103.0	50.8	22.1	27.0	2.30	1.88	1.22
53.4	21.5	26.8	101.7	52.5	21.2	26.4	2.48	1.99	1.24
50.0	21.5	24.4	95.9	52.2	22.4	25.5	2.32	2.05	1.13
62.0	24.0	30.0	116.0	53.5	20.7	25.8	2.58	2.06	1.25
54.0	22.5	28.9	105.4	51.2	21.3	27.4	2.40	1.87	1.28
53.3	20.0	26.5	100.1	53.1	20.0	26.8	2.66	1.99	1.34
54.2	21.4	26.7	103.1	53.0	20.8	26.1	2.56	2.04	1.26
49.5	21.4	28.9	100.8	49.2	21.2	27.7	2.31	1.65	1.40
54.1	22.6	25.5	102.1	52.9	22.1	24.9	2.39	2.12	1.13
50.4	21.9	25.5	97.8	51.5	22.4	26.1	2.30	1.97	1.16



FS  
9 ft. - 100 ft.

247

L	W	H	T	L	W	H	4/W	4/H	4/W
53.7	21.5	24.2	99.4	54.0	21.6	24.4	2.50	2.22	1.17
51.6	22.2	26.7	100.6	51.3	22.2	26.6	2.31	1.93	1.20
50.0	21.2	28.0	99.0	50.5	21.2	28.6	2.38	1.79	1.33
53.7	21.2	28.0	103.7	52.8	20.5	27.0	2.60	1.95	1.33
52.3	20.0	28.0	102.3	56.0	21.5	27.4	2.38	1.87	1.27
(49.4)	19.8	26.7	96.0	51.5	20.8	27.8	2.48	1.85	1.34
(49.0)	18.8	27.0	94.0	52.1	19.1	28.8	2.72	1.82	1.50
51.2	23.0	27.0	101.2	50.6	22.7	26.6	2.23	1.89	1.17
50.5	22.4	26.2	99.4	50.8	22.8	26.4	2.22	1.93	1.15
50.5	19.9	22.4	92.8	54.5	21.4	24.2	2.54	2.26	1.12
50.0	21.5	24.3	98.8	50.6	21.8	27.6	2.32	1.83	1.27
32.0	9.8	35.5	97.3	53.5	20.4	26.2	2.63	2.04	1.29
50.7	20.8	26.0	97.5	52.0	21.4	26.6	2.44	1.95	1.25
44.3	30.2	25.5	95.0	52.0	21.3	26.8	2.44	1.93	1.26
✓51.0	21.2	25.0	97.2	52.4	21.8	26.7	2.40	2.04	1.18
45.0	19.5	26.0	90.5	49.7	21.6	28.8	2.30	1.73	1.33
(52.5)	23.5	27.0	105.5	50.2	22.3	27.5	2.26	1.83	1.23
(50.5)	30.0	27.7	98.2	51.3	20.4	28.2	2.52	1.82	1.38
49.0	19.5	27.6	96.5	50.7	21.6	28.6	2.46	1.77	1.37
50.5	20.0	26.8	97.2	52.0	20.6	27.5	2.52	1.89	1.33
50.5	22.6	25.2	100.9	52.2	22.4	25.5	2.32	2.04	1.14
51.2	23.2	24.1	101.5	50.4	22.9	26.7	2.21	1.89	1.17
53.2	22.7	27.5	105.6	51.3	21.6	28.0	2.32	1.80	1.28
59.4	19.6	26.0	105.0	56.5	18.7	24.8	3.02	2.28	1.33
51.7	21.9	25.5	101.1	51.1	21.6	27.2	2.36	1.88	1.26
50.3	23.8	25.4	100.5	52.0	23.7	26.2	2.12	1.90	1.11
52.5	21.0	24.8	97.4	53.0	21.6	25.5	2.46	2.07	1.18
✓50.7	18.7	25.5	95.2	53.2	19.6	27.1	2.71	1.96	1.38
44.8	18.7	24.5	91.0	52.5	20.6	26.9	2.56	1.95	1.31
49.4	22.6	25.0	96.4	51.2	22.4	26.0	2.24	1.97	1.04
45.0	19.0	23.2	87.5	50.4	21.7	26.8	2.37	1.91	1.23
48.0	19.5	26.5	94.0	51.0	20.8	28.2	2.46	1.81	1.36
47.5	18.4	24.0	89.9	53.0	20.5	26.6	2.58	1.98	1.30

T. S.  
7th Aug 1907

247

L	W	H	T	L	W	H	1/2W	1/4H	H/W
48.4	20.2	25.5	94.5	51.2	21.6	27.2	237	188	1.26
48.0	20.5	24.6	93.1	51.5	22.0	26.4	234	195	1.20
47.8	20.0	24.7	94.8	50.0	23.9	26.2	210	1.91	1.10
151.9	20.5	26.8	99.3	52.2	20.6	27.1	253	1.93	1.31
47.5	19.0	24.5	92.5	53.5	20.6	26.0	260	2.06	1.26
46.5	20.5	25.6	92.1	50.1	22.1	27.7	227	1.80	1.26
47.0	17.0	23.8	88.4	53.2	20.7	26.5	261	2.01	1.30
46.7	17.5	24.0	86.2	51.8	21.3	27.8	256	1.86	1.37
48.3	19.8	25.3	91.1	53.0	19.5	27.4	271	1.93	1.40
46.5	17.7	23.6	84.8	53.5	21.9	26.6	251	1.97	1.28
45.2	17.9	25.0	88.1	51.4	24.2	28.4	254	1.81	1.40
46.0	17.0	24.6	87.6	51.3	20.6	28.1	250	1.83	1.37
47.0	18.3	24.0	90.0	53.3	20.0	26.7	266	2.00	1.33
46.3	20.0	23.3	88.8	51.2	22.6	26.3	227	1.95	1.16
48.0	17.8	24.4	90.2	53.2	19.7	27.0	270	1.97	1.37
43.0	20.0	25.0	88.0	48.8	22.7	28.4	215	1.72	1.25
45.0	16.7	23.7	85.1	52.9	19.3	27.8	274	1.89	1.44
45.4	19.5	24.4	89.6	51.0	21.7	27.2	234	1.87	1.25
41.4	15.9	25.0	82.3	50.3	19.3	30.4	260	1.65	1.57
46.0	19.1	24.1	90.1	52.0	21.2	26.7	275	1.94	1.26
45.7	16.4	22.9	85.2	53.7	19.3	26.9	210	2.00	1.40
44.5	17.3	23.7	85.7	51.9	21.2	27.9	257	1.96	1.38
42.0	18.4	24.0	81.4	51.6	22.6	25.8	228	2.00	1.14
45.0	18.0	24.7	87.9	51.2	20.5	28.4	250	1.81	1.38
43.2	16.6	24.5	84.0	51.3	19.8	28.8	260	1.78	1.46
45.5	17.0	23.7	85.2	53.3	19.9	26.7	268	2.00	1.34
43.5	18.0	24.4	82.9	52.5	21.7	25.9	241	2.03	1.19
42.3	17.3	23.3	82.9	51.1	21.7	28.1	244	1.82	1.35
41.4	16.3	21.0	78.7	52.5	20.7	26.7	254	1.97	1.29
41.5	17.3	24.4	83.2	50.0	20.4	29.3	240	1.70	1.41
45.3	19.4	23.6	88.3	51.3	22.0	26.8	234	1.92	1.21
44.3	15.7	20.5	83.5	56.6	19.4	24.6	3.01	2.30	1.30
36.5	13.5	20.5	70.5	51.7	19.1	29.1	270	1.78	1.52



T8  
9 ft buoy

4/7

	W	H	T	L	W	L	1/10	1/11	1/12
33.0	14.5	20.1	67.6	48.8	21.4	29.8	2.28	1.64	1.39
34.1	15.2	20.5	69.6	49.0	21.5	29.4	2.27	1.66	1.37
38.0	18.0	18.0	70.0	54.3	20.3	25.7	2.72	2.11	1.28
41.5	16.5	21.5	79.5	52.2	20.8	27.0	2.51	1.93	1.30
37.5	13.7	20.5	71.7	52.3	19.1	28.5	2.74	1.83	1.58
30.4	11.3	17.0	58.9	51.7	19.2	29.2	2.69	1.77	1.52
32.3	14.6	16.5	64.0	52.0	22.2	25.8	2.34	2.02	1.16
29.5	14.5	16.2	56.2	49.0	22.3	28.8	2.20	1.70	1.30
26.0	10.4	14.3	52.7	49.2	19.7	31.0	2.50	1.59	1.57
21.3	8.4	12.8	42.5	50.1	19.8	30.2	2.54	1.66	1.53
24.4	9.1	14.1	47.6	51.2	19.1	29.6	2.68	1.73	1.55
22.6	8.2	13.2	44.0	51.3	18.6	30.0	2.76	1.71	1.61
21.7	8.9	13.1	43.7	47.7	20.4	30.0	2.43	1.66	1.47
18.0	6.6	10.4	35.0	51.4	18.9	29.8	2.73	1.73	1.58
13.7	4.6	8.5	26.8	51.2	17.1	31.7	2.98	1.61	1.85
14.6	5.4	8.2	28.2	51.8	18.1	29.0	2.70	1.78	1.52
15.0	5.3	7.1	29.4	51.0	18.0	31.0	2.83	1.65	1.72
12.2	5.1	7.9	26.2	50.5	19.4	30.1	2.59	1.67	1.55
12.0	4.5	7.5	26.0	46.2	17.3	36.6	2.67	1.26	2.11
12.5	4.2	7.3	24.0	52.1	17.5	30.4	2.98	1.71	1.74
13.5	4.7	7.2	26.4	51.1	17.8	31.0	2.88	1.65	1.74
10.8	4.3	6.4	21.6	50.5	19.9	29.6	2.54	1.70	1.49
11.6	4.3	7.5	23.4	48.6	18.4	32.0	2.70	1.55	1.74
10.4	3.6	6.8	20.8	52.0	17.3	32.6	2.89	1.53	1.89
11.4	4.0	6.8	22.2	51.4	18.0	30.6	2.85	1.68	1.70
10.4	4.2	6.3	20.9	49.8	20.1	30.1	2.48	1.65	1.50
11.0	3.6	6.1	21.0	52.4	17.1	30.5	2.16	1.72	1.78
10.2	3.7	6.9	20.8	49.0	17.8	33.1	2.76	1.48	1.87
10.5	3.6	5.9	20.0	50.5	18.0	29.5	2.92	1.78	1.64
10.5	3.7	6.4	20.6	51.0	18.0	31.0	2.84	1.64	1.73
11.3	3.8	6.8	21.7	51.6	17.3	31.0	2.98	1.66	1.79
11.2	3.8	6.4	20.4	51.0	18.6	31.4	2.68	1.60	1.68
11.4	4.0	6.8	21.2	49.1	18.8	32.1	2.60	1.53	1.70



T 8  
9 ft. Ditch

L	W	H	T	L	W	H	1/10	1/11	H/10
✓ 10.9	3.9	6.6	21.4	51.0	18.2	30.8	210	165	1.69
8.7	3.5	5.5	17.7	49.1	19.8	31.0	248	158	1.57
✓ 10.0	3.6	5.8	19.4	51.5	18.6	29.9	286	172	1.61
9.0	3.6	5.7	18.3	49.2	19.7	31.1	250	158	1.58
9.9	4.0	6.0	19.9	49.8	20.1	30.1	248	165	1.50
8.7	3.0	5.5	17.2	50.5	17.5	32.0	290	158	1.13
✓ 11.6	3.8	6.3	20.7	51.2	18.4	30.4	279	161	1.66
9.8	3.7	6.0	19.5	50.2	19.0	30.8	265	163	1.25
8.1	3.2	4.8	16.0	50.0	20.0	30.0	250	167	1.62
8.4	3.2	5.0	16.6	50.6	19.3	30.1	262	168	1.56
7.7	2.7	4.4	14.8	52.0	18.2	29.8	285	175	1.63
7.0	2.8	4.9	14.7	47.6	19.1	33.3	250	143	1.75
9.1	3.3	5.4	17.8	51.1	18.5	30.4	276	168	1.63
7.3	2.8	4.5	14.6	50.0	19.2	30.8	260	162	1.61
8.7	3.0	5.4	17.1	51.8	17.5	31.6	290	161	1.80
8.3	3.5	4.5	15.3	54.2	16.3	29.4	332	184	1.80
8.2	2.3	5.0	16.5	49.7	20.0	30.3	248	164	1.51
7.5	2.8	4.5	14.8	50.6	19.0	30.4	268	166	1.61
8.0	3.0	5.2	16.2	49.4	18.5	32.0	267	134	1.73
8.0	3.0	4.9	15.9	50.3	18.9	30.8	267	163	1.63
7.5	2.5	4.3	14.3	52.4	17.5	30.0	300	174	1.72
7.3	2.7	4.4	14.4	50.7	18.7	30.6	270	166	1.63
7.0	2.8	4.3	14.1	49.6	19.9	30.5	250	163	1.53
8.8	2.3	5.7	17.8	49.4	18.5	32.0	267	134	1.73
7.5	2.7	4.5	14.7	51.0	18.4	30.6	278	167	1.67
6.5	2.3	4.1	12.9	50.4	17.8	31.8	283	165	1.78
8.1	2.8	5.0	15.8	50.6	17.7	31.6	286	160	1.78
✓ 11.3	3.7	6.4	20.4	50.5	18.1	31.4	278	161	1.73
8.7	3.5	5.2	17.4	50.0	20.1	30.0	248	167	1.48
7.0	2.4	4.5	13.9	50.3	17.3	32.4	292	155	1.87
6.6	2.5	4.3	13.4	49.3	18.7	32.0	264	153	1.72
9.0	3.2	5.6	17.7	50.8	18.1	31.1	281	163	1.72
7.7	2.9	4.9	15.6	49.6	18.7	31.6	266	157	1.69

Left buoy

6/27

L	W	H	T	L	W	H	L/W	L/H	H/W
6.5	2.5	4.4	13.4	48.5	18.6	32.8	2.60	1.48	1.76
6.8	2.5	4.6	13.9	49.0	18.6	33.1	2.72	1.48	1.84
5.9	2.3	3.6	11.8	50.0	19.5	30.5	2.56	1.64	1.56
7.2	2.9	4.4	14.7	49.0	19.7	31.3	2.48	1.56	1.58
6.8	2.5	4.3	13.6	50.0	18.4	31.6	2.72	1.58	1.72
5.0	3.0	5.4	16.4	48.8	18.3	32.9	2.67	1.48	1.80
5.0	2.5	4.6	15.4	52.0	18.2	29.9	2.86	1.74	1.64
6.6	2.5	4.3	13.5	48.9	18.3	31.8	2.54	1.53	1.65
7.1	2.7	5.0	15.7	51.0	17.2	31.8	2.96	1.60	1.85
5.3	2.2	3.3	10.8	49.1	20.3	30.6	2.41	1.60	1.50
6.1	2.3	3.9	12.3	49.6	18.7	31.6	2.22	1.56	1.69
5.8	2.8	3.7	12.3	47.2	22.8	30.0	2.07	1.57	1.32
5.7	2.3	3.7	11.7	48.7	19.7	31.6	2.48	1.54	1.61
6.0	2.3	3.7	12.0	50.6	19.2	30.8	2.60	1.62	1.61
6.7	2.5	4.4	13.6	49.2	18.4	32.4	2.68	1.52	1.76
6.9	2.0	4.0	12.9	52.5	15.5	31.0	3.45	1.72	2.00
6.0	2.0	3.7	11.7	51.2	17.1	31.6	3.00	1.62	1.85
6.4	2.4	4.2	12.8	50.0	18.1	31.2	2.66	1.60	1.67
6.4	2.6	4.3	13.3	41.2	18.5	32.4	2.46	1.49	1.65
6.3	2.4	3.9	12.6	50.0	19.0	30.9	2.62	1.61	1.62
5.8	2.0	3.7	11.5	50.4	17.4	32.2	2.90	1.57	1.85
5.7	2.7	4.0	12.4	46.0	21.6	32.2	2.11	1.42	1.48
6.7	2.2	3.5	12.4	54.0	12.7	28.2	2.04	1.91	1.59
5.8	2.2	4.0	12.0	48.3	19.3	33.4	2.44	1.45	1.82
6.3	2.3	3.8	12.4	50.8	18.5	30.6	2.74	1.66	1.65
5.9	2.2	3.6	11.7	50.3	17.8	30.8	2.68	1.64	1.64
5.4	1.9	3.3	10.6	51.0	17.9	31.1	2.74	1.63	1.74
5.4	2.2	3.6	11.3	47.7	20.4	31.8	2.35	1.50	1.56
5.8	1.9	3.3	11.0	52.7	17.2	30.0	3.03	1.76	1.74
5.4	2.2	3.3	10.7	50.5	18.7	30.8	2.70	1.63	1.65
6.1	2.2	3.7	11.9	52.4	18.5	31.1	2.72	1.62	1.68
5.6	2.0	3.2	10.2	49.0	19.6	31.4	2.50	1.56	1.60
5.6	2.2	3.5	11.1	50.5	19.0	31.6	2.80	1.60	1.76



T8  
9 ft. buoy

7 of 7

L	W	H	T	V	W	H	L/W	L/H	H/W
5.6	2.2	3.9	11.7	47.9	18.8	33.4	2.54	1.43	1.77
5.0	2.0	3.8	10.0	50.0	20.0	30.0	2.50	1.67	1.50
5.5	2.2	3.2	10.9	50.5	20.2	29.4	2.50	1.72	1.45
14.9	2.1	3.3	10.3	47.6	20.4	32.0	2.33	1.48	1.57
4.3	1.9	2.7	8.9	48.3	21.4	30.4	2.26	1.59	1.42
5.0	1.8	3.2	10.0	50.0	18.0	32.0	2.78	1.56	1.78
✓4.4	1.8	3.2	9.4	46.8	19.2	34.0	2.44	1.37	1.78
✓5.0	2.0	2.8	9.8	51.0	20.4	28.6	2.50	1.78	1.40
4.6	1.7	3.0	9.3	49.5	18.3	32.2	2.70	1.53	1.77
4.2	1.8	2.7	8.7	48.2	20.7	31.0	2.33	1.55	1.50
4.9	1.8	3.0	9.7	50.5	18.6	31.0	2.72	1.63	1.67
4.3	1.7	2.8	8.8	49.0	19.2	31.8	2.53	1.53	1.64
4.4	1.8	2.7	8.9	49.5	20.2	30.4	2.44	1.63	1.50
4.3	1.6	2.5	8.4	51.2	19.1	29.8	2.68	1.72	1.56
4.8	1.6	2.5	8.1	49.4	19.8	30.9	2.50	1.60	1.56
3.9	1.4	2.8	8.1	48.1	17.3	34.6	2.78	1.39	2.00
4.0	1.7	2.7	8.4	47.6	20.2	32.1	2.34	1.48	1.59
4.2	1.5	2.5	8.2	51.2	18.3	30.5	2.80	1.68	1.67
3.9	1.6	2.4	7.9	49.4	20.2	30.4	2.44	1.62	1.50
3.0	1.0	1.9	5.9	50.8	17.0	32.2	3.00	1.58	1.90
2.8	1.3	1.9	6.0	46.7	21.7	31.7	2.15	1.47	1.46



T8

30ft. chain

58 mussels

class	0-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70
Number	2	5	1	2	7	11	17	13
Length	47.5	51.8	51.5	51.8	51.9	52.5	52.5	53.6
Width	19.6	16.1	17.3	19.1	19.4	21.4	21.2	20.6
Height	32.9	32.1	31.2	29.1	28.7	26.1	26.2	25.7



T8  
30ft. Charlie  
whole sample

108<sup>2</sup>

L	W	H	T	L	W	H	L/W	L/H	H/W
63.0	24.7	30.0	117.7	53.6	21.0	25.5	2.45	2.10	1.21
64.4	22.1	29.1	115.5	55.7	19.1	25.1	2.91	2.22	1.31
64.4	24.0	30.0	118.4	54.3	20.3	25.3	2.68	2.14	1.25
61.9	24.0	39.6	125.5	49.2	19.1	31.6	2.58	1.56	1.64
65.9	26.0	29.0	120.9	54.5	21.5	24.0	2.53	2.26	1.11
58.1	24.1	33.1	115.3	50.3	20.9	28.7	2.41	1.76	1.37
62.0	23.6	31.0	116.6	53.2	20.2	26.6	2.62	2.01	1.31
64.6	26.8	30.7	122.1	52.9	21.9	25.1	2.41	2.10	1.14
59.8	26.5	29.0	115.3	51.8	23.0	25.1	2.26	2.06	1.09
60.0	24.6	28.5	113.1	53.0	21.7	25.2	2.42	2.10	1.16
60.6	21.9	29.6	112.1	54.0	19.5	26.4	2.76	2.05	1.35
61.6	23.6	27.6	112.8	54.7	20.9	24.4	2.61	2.23	1.17
57.0	24.9	31.7	113.6	50.1	21.9	27.9	2.29	1.80	1.27
58.8	23.4	27.8	110.0	53.5	21.2	25.2	2.51	2.12	1.19
57.5	27.8	28.7	114.0	50.4	24.4	25.1	2.06	2.00	1.03
57.3	20.5	27.3	105.1	54.4	19.5	26.0	2.77	2.10	1.33
57.6	23.0	26.4	107.0	54.0	21.5	24.6	2.50	2.18	1.15
60.5	23.8	28.5	112.8	53.6	21.1	25.4	2.54	2.12	1.20
60.0	22.2	26.9	109.1	55.0	20.3	24.6	2.70	2.23	1.21
54.9	22.0	27.0	103.9	52.9	21.2	26.0	2.49	2.03	1.23
52.5	22.0	26.0	100.5	52.2	21.8	25.9	2.39	2.02	1.18
55.4	19.4	28.4	103.2	53.6	18.8	27.5	2.86	1.95	1.46
54.0	20.0	29.0	103.0	52.4	19.4	24.1	2.70	1.86	1.45
51.3	22.3	27.3	100.9	50.9	22.1	27.1	2.42	1.88	1.22
60.3	24.0	27.3	111.6	54.0	21.5	24.5	2.51	2.21	1.14
51.3	19.9	26.8	97.0	51.8	20.5	27.6	2.52	1.94	1.35
57.9	22.4	25.9	106.2	54.5	21.0	24.4	2.58	2.23	1.16
51.4	21.0	25.0	97.4	52.8	21.6	25.6	2.44	2.06	1.19
51.2	19.9	24.0	95.1	53.8	20.9	25.2	2.57	2.14	1.20
50.0	20.0	24.0	94.0	53.2	21.3	25.6	2.50	2.08	1.20
49.1	19.2	21.8	90.1	54.4	21.3	24.2	2.56	2.25	1.13
49.3	19.3	23.6	92.2	53.5	20.9	25.6	2.56	2.08	1.22
42.7	17.4	22.5	82.6	51.6	21.0	27.3	2.45	1.90	1.29
46.9	19.0	22.8	88.7	52.8	21.6	25.7	2.47	2.06	1.20



T-8  
30 ft. Chan  
whole sample

2 of 2

L	W	H	T	L	W	H	L/W	L/H	H/W
47.5	20.0	24.6	92.1	51.5	21.7	26.7	2.37	1.93	1.22
41.7	17.2	22.8	81.7	51.0	21.0	27.9	2.42	1.83	1.32
46.6	17.1	22.3	79.4	50.4	21.6	28.1	2.34	1.79	1.30
45.6	16.8	21.0	83.4	54.7	20.2	25.2	2.72	2.17	1.25
44.0	20.0	21.0	85.0	57.7	23.5	24.7	2.20	2.10	1.05
43.5	16.5	20.7	80.7	53.9	20.4	25.6	2.64	2.10	1.25
41.2	17.5	20.5	79.2	51.9	22.1	25.9	2.35	2.01	1.17
39.9	15.6	21.7	77.2	51.6	20.2	28.1	2.54	1.84	1.39
34.6	13.0	18.4	66.0	52.5	19.7	27.9	2.66	1.88	1.41
39.5	15.4	20.9	75.9	52.0	20.3	27.6	1.89	1.89	1.36
31.8	11.5	18.9	62.2	51.0	18.5	30.4	2.76	1.68	1.64
32.2	11.3	18.5	62.0	52.0	18.2	29.8	2.85	1.74	1.64
32.6	12.2	18.7	63.5	51.4	19.2	29.4	2.65	1.74	1.53
32.0	12.2	16.7	60.9	52.6	20.0	27.4	2.62	1.92	1.37
27.1	10.0	14.5	51.6	52.5	19.4	28.1	2.71	1.87	1.45
29.0	10.6	17.0	56.6	51.1	18.7	30.1	2.74	1.71	1.60
14.0	4.7	8.5	27.2	51.5	17.3	31.2	2.98	1.65	1.81
9.0	2.6	5.0	16.6	54.2	15.7	30.1	3.46	1.80	1.92
6.5	1.6	4.0	12.1	53.7	13.2	33.1	4.06	1.62	2.50
6.5	2.1	4.0	12.6	51.5	16.7	31.8	3.10	1.62	1.90
5.0	1.9	3.6	10.5	47.6	18.1	34.2	2.63	1.39	1.89
5.0	1.6	3.0	9.6	52.1	16.7	31.2	3.12	1.67	1.87
3.0	1.4	3.0	6.4	46.8	21.9	31.2	2.14	1.50	1.43
2.8	1.0	2.0	5.8	48.2	17.2	34.5	2.80	1.40	2.10